TGuide Plant Genomic DNA Kit

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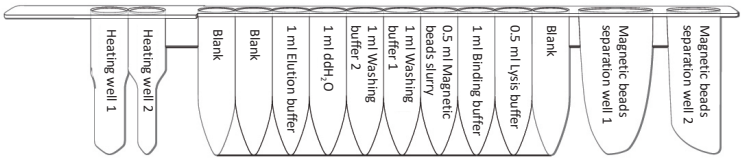
TGuide Plant Genomic DNA Kit

Cat. no. OSR-M301

Kit Contents

Contents	OSR-M301 (48 rxn)
Prepacked Reagent Cartridge (301)	48
Pipette Tips/Tip Caps	48
1.5 ml Sample Tubes (luer lock)	50
1.5 ml Centrifuge tubes	50
Filtration columns CS	50
2 ml Collection tubes	50
RNaseA (10 mg/ml)	300 µl
Buffer FP1	25 ml
Buffer FP2	10 ml
Handbook	1

Reagent Cartridge:



Storage Conditions:

It can be stored dry at room temperature (15-25°C) for 12 months.

Product Description:

TGuide Plant Genome DNA Kit is specially designed to extract high purity DNA from plants using TGuide M16 Automated Nucleic Acid Extractor. The kit contains reagents and consumables required for automatic DNA extraction by magnetic bead method, and the reagents are prepacked in sealed reagent cartridges. Unique embedded magnetic beads, and fully automatic extraction process are convenient to separate DNA quickly and conveniently.

The purified genomic DNA can be directly used in PCR, quantitative PCR, Southern hybridization, RADP/AFLP and other molecular experiments.

Extraction Yield:

Materials	Sample volume	DNA yield
Plant tissue	100 mg	3-30 μg

Product Features:

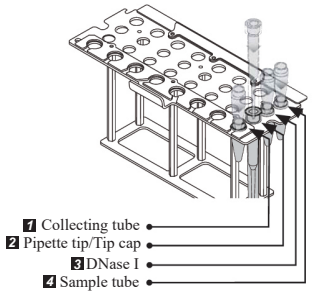
Simple and fast: Ultrapure nucleic acids can be obtained in 33 min.

Wide application: Genomic DNA can be extracted from fresh or dried leaves, seeds and other different plant tissues.

Reliable results: The obtained genomic DNA is free from RNA and protein contamination and able to be used for PCR or fluorescence quantitative PCR

Safe and harmless: The kit and the operation process do not need to use organic solvents harmful to human body such as phenol and chloroform.

The Setting of the T-rack:



Note: Read this note before using this kit.

1. This kit must be combined with TGuide M16 Automatic Nucleic Acid Extractor.
2. Repeated freezing and thawing of the sample should be avoided, otherwise the extraction yield will be decreased.

Operation steps:

1. Sample treatment:

   Take 50-100 mg of fresh plant tissue or 5-20 mg of dry weight tissue, and add liquid nitrogen for full grinding.

   Transfer to a centrifuge tube (not supplied), add 400 µl buffer FP1 and 5 µl RNase A (10 mg/ml) and mix them by vortex, and incubate at 65°C for 10 min.

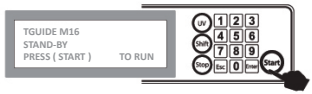
2. Add 100 µl buffer FP2, shake well, incubate on ice for 3 min.
3. Add the solution and flocculent precipitate obtained in the previous step to a filtration column CS (Place the filtration column in a 2 ml collection tube) and centrifuge at 12,000 rpm (~ 13,400× g) for 3 min.
4. Discard the filtration column and retain the filtrate in the collecting tube.
5. Transfer about 400 µl of filtrate to a 1.5 ml sample tube.
6. Place the sample tube in the well 4 of the T-rack. Run No.301 program (plant genomic DNA extraction program) and only select the final elution volume.

   Note: When operating according to the above steps, it is recommended to select an elution volume of 100 µl or 150 µl to obtain a higher elution concentration.

Start program

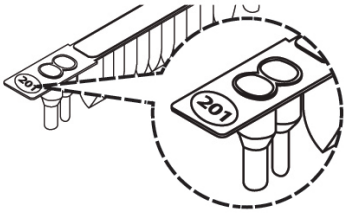
TGuide M16

Apply your specimen to TGuide after installing all necessary accessories.



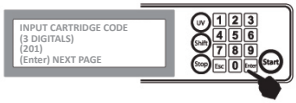
Press START

After the Start button is pressed, the machine executes the calibration procedure, initializes, and moves all axes to the original position.



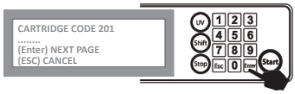
Enter the cartridge code and execute the program. The cartridge code is displayed on the prepacked reagent cartridge and the cover of the manual.

The above code is for demonstration purposes, please refer to the reagent cartridge you will actually purchase.

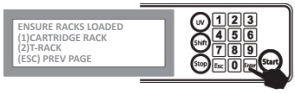


Confirm the cartridge code you entered again and press Enter to select the sample volume on the next page.

Select the sample volume

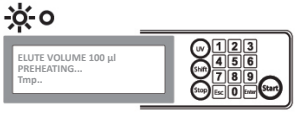


Confirm the sample volume.
Press Enter to enter the next page;
Press ESC to return to the Stand-By page.



In this step, check whether the cartridge rack and T-rack are in the work area.
Then press Enter to select the elution volume on the next page

Select elution volume



In this process, the green LCD indicator lights up and the heater starts to heat up to 65°C for the lysis step.
The TGuide LCD light is on at all times during the TGuide M16 program.
Don't open the door at this time, it will cause an emergency stop. You may lose your sample due to machine interruption.

When the program is completed, an alarm sound can be heard and the green LCD indicator goes out.